

California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, CA 92501-3348

NOTICE OF PUBLIC HEARING

For
Order No. R8-2006-0007
Amending Order No. 88-94
for
Eastern Municipal Water District
San Jacinto Valley Water Reclamation Facility
Riverside County

On the basis of preliminary staff review and application of lawful standards and regulations, the California Regional Water Quality Control Board, Santa Ana Region, proposes to amend the waste discharge requirements for the Eastern Municipal Water District, San Jacinto Valley water reclamation facility, to include recycling requirements to allow production and use of tertiary treated and disinfected wastewater for recycling purposes.

The Board is seeking comments concerning the proposed amendment to the waste discharge requirements. The Board will hold a public hearing to consider adoption of the proposed amendment as follows:

DATE: January 18, 2006
TIME: 9:00 a.m.
PLACE: City Council Chambers of Loma Linda
25541 Barton Road
Loma Linda

Interested persons are invited to submit written comments on the proposed Amending Order No. R8-2006-0007. Interested persons are also invited to attend and express their views on issues relating to the proposed Order. Oral statements will be heard, but should be brief to allow all interested persons time to be heard. For the accuracy of the record, all testimony (oral statements) should be submitted in writing.

Although all comments that are provided up to and during the public hearing on this matter will be considered, receipt of comments by January 2, 2006 would be appreciated so that they can be used in the formulation of the draft Order that will be transmitted to the Board two weeks prior to the hearing. To view or download a copy of the draft Order that the Board will consider at its meeting, please access our website at www.waterboards.ca.gov/santana on or after January 9, 2006.

The Board's proposed Order, related documents, and all comments and petitions received may be inspected and copied at the Regional Board office, 3737 Main Street, Suite 500, Riverside, CA 92501-3348 (phone 951-782-4130) by appointment scheduled between the hours of 9:00 a.m. and 3:00 p.m., Monday through Friday. Copies of the proposed Order will be mailed to interested persons upon request to Jun Martinez at (951) 782-3258).

Any person who is physically challenged and requires reasonable accommodation to participate in this Regional Board Meeting should contact Catherine Ehrenfeld at (951) 782-3285 no later than January 11, 2006.

Please bring the foregoing to the attention of any persons known to you who would be interested in this matter.

California Regional Water Quality Control Board
Santa Ana Region

January 18, 2006

STAFF REPORT

ITEM:

SUBJECT: Order No. R8-2006-0007, Amending Order No. 88-94, Waste Discharge Requirements for Eastern Municipal Water District, San Jacinto Valley Regional Water Reclamation Facility, San Jacinto, Riverside County

I. DISCUSSION:

The Eastern Municipal Water District (hereinafter Discharger) is currently discharging pursuant to Order No. 88-94, which was adopted by the Regional Board on September 9, 1988 for the San Jacinto Valley Regional Water Reclamation Facility. The facility is located in San Jacinto, Riverside County. On November 17, 2005, the discharger submitted a Report of Waste Discharge and requested an amendment of Order No. 88-94 waste discharge requirements to authorize delivery of up to 14 million gallons per day (mgd) of tertiary treated recycled water to recycled water users within the Hemet & San Jacinto areas of Riverside County or discharge to evaporation-percolation ponds located near the treatment plant.

The Discharger is currently constructing tertiary treatment facilities. The tertiary treatment consists of chemical coagulation/flocculation, cloth disk filters, and chlorine disinfection. The construction of the tertiary treatment facilities is expected to be complete by mid December 2005. It is therefore necessary to amend Order No. 88-94, to include recycling requirements in the Order to allow the Discharger to deliver tertiary treated and disinfected recycled water to prospective recycled water users.

The following changes to the Order are proposed: (additions are boldface and highlighted, deletions are struck out).

1. Order No. 88-94, Page 3, replace Finding 11 with the following:

17. On January 6, 1977, the State Board adopted a water reclamation policy regarding the issuance of wastewater reclamation requirements to primary users of reclaimed water. This Order incorporates requirements for the production and use of reclaimed water in conformance with the "Policy and Action Plan for Water Reclamation in California" adopted by the State Board and "Reclamation Criteria" (Title 22 Division 4 California Code of Regulations) adopted by the California Department of Health Services. The Regional Board has consulted with the Department of Health Services regarding these requirements and has incorporated its recommendations.

2. Order No. 88-94, Page 5, add new Discharge Specifications A.9., as follows:

5. Tertiary recycled water shall at all times, be adequately oxidized, filtered, and disinfected tertiary treated wastewater and shall meet the following limitations:

a. The turbidity of the filter effluent shall not exceed any of the following:

(1) An average of 2 Nephelometric Turbidity Unit (NTU) within a 24-hour period;

(2) 5 NTU more than 5 percent of the time within any 24-hour period; and

(3) 10 NTU at any time.

b. The 7-day median number of total coliform shall not exceed a Most Probable Number (MPN) of 2.2 total coliform bacteria per 100 milliliters (ml).

c. The number of total coliform organism shall not exceed an MPN of 23 total coliform bacteria per 100 ml in more than one sample in any 30-day period.

d. No total coliform sample shall exceed an MPN of 240 total coliform bacteria per 100 ml.

3. Order No. 88-94, Page 7, add new Provision C.16. as follows:

16. Compliance with the 7-day median total coliform limit expressed in Discharge Specifications 16. shall be based on a running median of the test results from the previous 7 days. To comply with the limit, the 7-day median MPN must not exceed 2.2 per 100 milliliters on any day during the week. However, only one violation is recorded for each calendar week, even if the 7-day median MPN value is greater than 2.2 for more than one day in the week.

4. Order No. 88-94, Page 5, replace the entire Section B with the following:

B. RECYCLED WATER REQUIREMENTS:

1. The use of recycled water shall only commence after the California Department of Health Services (CDHS) grants final approval for such use. The Discharger shall provide the Regional Board with a copy of the CDHS approval letter within 30 days of the approval notice.

- 2. The Discharger shall be responsible for assuring that recycled water is delivered and utilized in conformance with this Order, the recycling criteria contained in Title 22, Division 4, Chapter 3, Sections 60301 through 60355, California Code of Regulations, and the "Guidelines for Use of Reclaimed Water" by the California Department of Health Services. The discharger shall conduct periodic inspections of the facilities of the recycled water users to monitor compliance by the users with this Order.**
- 3. The Discharger shall establish and enforce Rules and Regulations for Recycled Water users, governing the design and construction of recycled water use facilities and the use of recycled water in accordance with the uniform statewide recycling criteria established pursuant to the California Water Code Section 13521.**
 - a. Use of recycled water by the discharger shall be consistent with its Rules and Regulations for Recycled Water Use.**
 - b. Any revisions made to the Rules and Regulations shall be subject to the review of the Regional Board, the California Department of Health Services, and the County of Riverside Department of Environmental Health. The revised Rules and Regulations or a letter certifying that the discharger's Rules and Regulations contain the updated provisions in this Order, shall be submitted to the Regional Board within 60 days of adoption of this Order by the Regional Board.**
- 4. The Discharger shall, within 60 days of the adoption of this Order, review and update as necessary its program to conduct compliance inspections of recycled water reuse sites. Inspections shall determine the status of compliance with the discharger's Rules and Regulations for Recycled Water Use.**
- 5. The storage, delivery, or use of recycled water shall not individually or collectively, directly or indirectly, result in a pollution or nuisance, or adversely affect water quality, as defined in the California Water Code**
- 6. Prior to delivering recycled water to any new individual residential user, small commercial, or construction project users, the discharger shall obtain items a. through f. listed below for review and approval by the discharger's supervisor responsible for the operation of the recycled water distribution system. For all other new users, the discharger shall submit to the California Department of Health Services for review and approval a report containing items a. through f. listed below:**
 - a. The average number of persons estimated to be served at each use site area on a daily basis.**

- b. The specific boundaries of the proposed use site area including a map showing the location of each facility, drinking water fountain, and impoundment to be used.
 - c. The person or persons responsible for operation of the recycled water system at each use area.
 - d. The specific use to be made of the recycled water at each use area.
 - e. The methods to be used to assure that the installation and operation of the recycled system will not result in cross connections between the recycled water and potable water piping systems. This shall include a description of the pressure, dye or other test methods to be used to test the system.
 - f. Plans and specifications which include following:
 - i. Proposed piping system to be used.
 - ii. Pipe locations of both the recycled and potable systems.
 - iii. Type and location of the outlets and plumbing fixtures that will be accessible to the public.
 - iv. The methods and devices to be used to prevent backflow of recycled water into the potable water system.
 - v. Plan notes relating to specific installation and use requirements.
 - 7. The user shall designate an on-site supervisor responsible for the operation of the recycled water distribution system. The supervisor shall be responsible for enforcing this Order, prevention of potential hazards, the installation, operation and maintenance of the distribution system, maintenance of the distribution and irrigation system plans in "as-built" form, and for the distribution of the recycled wastewater in accordance with this Order.
5. Monitoring and Reporting Program No. 88-94, Page 12, add new Effluent Monitoring 7. and add new footnotes 2 and 3 as follows:

7. In addition to the effluent monitoring in paragraph 1., above, the following shall be monitored whenever tertiary treated effluent is used for recycling purposes:

EFFLUENT MONITORING			
CONSTITUENT	UNITS	TYPE OF SAMPLE	MINIMUM FREQUENCY OF SAMPLING AND TESTING
Turbidity Four-hour Results Daily Average Daily 95 th Percentile	NTU ²	Recorder/continuous turbidimeter	See Note (1) below
Coliform Organisms	MPN per 100 ml ³	Grab	Daily (see Note (2) below)
CT	mg-minutes/L	See Note (3) below	See Note (3) below

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NTU = Nephelometric Turbidity Units

³

MPN/100mL = Most Probable Number per 100 milliliters

Notes:

- (1) Turbidity analysis shall be continuous, performed by a continuous recording turbidimeter. Compliance with the daily average operating filter effluent turbidity shall be determined by averaging the levels of recorded turbidity taken at a minimum of four-hour intervals over a 24-hour period. The results of the daily average turbidity determinations shall be reported monthly.
- (2) Samples shall be taken from disinfected effluent.
- (3) CT shall be calculated based on one-hour peak flow within a 24-hour period and corresponding chlorine residual at that time. Modal contact time shall be calculated based on one-hour peak flow within a 24-hour period. The minimum daily value shall be reported monthly.

6. Monitoring and Reporting Program No. 88-94, Page 13, insert new heading and paragraph as follows before Water Supply Monitoring:

Recycled Water Monitoring:

Whenever recycled water is supplied to a user, the volume and type of recycled water, the user of recycled water, the locations of those sites including the names of the groundwater management zone underlying the recycled water use sites, type of use (e.g. irrigation, industrial, etc) and the dates at which water is supplied shall be recorded. A summary report of water use by groundwater management zones shall be submitted quarterly. This report shall be included in the annual report.

II. WRITTEN COMMENTS:

Interested persons are invited to submit written comments on the proposed discharge limits and the Fact Sheet. Comments should be submitted by January 2, 2006, either in person or by mail to:

Jun Martirez
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, CA 92501-3348

III. INFORMATION AND COPYING:

Persons wishing further information may write to the above address or call Jun Martirez of the Regional Board at (951) 782-3258. Copies of the application, proposed waste discharge requirements, Staff Report, and other documents (other than those which the Executive Officer maintains as confidential) are available at the Regional Board office for inspection and copying between the hours of 9:00 a.m. and 3:00 p.m., Monday through Friday (excluding holidays).

IV. REGISTER OF INTERESTED PERSONS:

Any person interested in a particular application or group of applications may leave his/her name, address, and phone number as part of the file for an application.

V. PUBLIC HEARING:

The Regional Board will hold a public hearing regarding the proposed waste discharge requirements as follows:

DATE: January 18, 2006
TIME: 9:00 a.m.
PLACE: City Council Chambers of Loma Linda
25541 Barton Road
Loma Linda

RECOMMENDATION:

Adopt Order No. R8-2006-0007, amending Order No. 88-94, as presented.

Comments were solicited from the following agencies:

U.S. Army District, Los Angeles, Corps of Engineers, Regulatory Branch
U.S. Fish and Wildlife Service – Carlsbad
State Water Resources Control Board, Office of the Chief Counsel – Jorge Leon
State Water Resources Control Board, Division of Water Quality – Jim Maughan
California Department of Health Services, Carpinteria – Jeff Stone
State Department of Water Resources - Glendale
State Department of Fish and Game – Long Beach
Orange County Water District – Nira Yamachika
Riverside County Department of Environmental Health – Damian Meins
Riverside County Flood Control Department –
Santa Ana Watershed Project Authority – Daniel Cozad
City of Hemet, City Manager
City of San Jacinto, City Manager

California Regional Water Quality Control Board
Santa Ana Region

ORDER NO. R8-2006-0007

Amending Order No. 88-94
Waste Discharge Requirements
for
Eastern Municipal Water District
San Jacinto Valley Regional Water Reclamation Facility
Riverside County

The California Regional Water Quality Control Board, Santa Ana Region (hereinafter Regional Board), finds that:

1. On September 9, 1988, the Board adopted Order No. 88-94, waste discharge requirements for the discharge of 11 million gallons a day of secondary treated wastewater to evaporation-percolation ponds and for irrigation of animal fodder, fiber, and seed crops within the area or used in restricted recreation impoundments (duck ponds).
2. On November 17, 2005, the discharger submitted a Report of Waste Discharge, requesting an amendment of Order No. 88-94 to deliver up to 14 million gallons per day (mgd) of tertiary treated recycled water to recycled water users within the Hemet & San Jacinto areas of Riverside County or discharge to evaporation-percolation ponds located near the treatment plant. The Discharger expects to complete construction of tertiary treatment facilities by mid December 2005.
3. On May 18, 2005, Eastern Municipal Water District approved a mitigated negative declaration for the San Jacinto Valley Regional Water Reclamation Facility Title 22 Tertiary Treatment Upgrade in compliance with Section 21108 or 21152 of the Public Resources Code.
4. The project involves the update of waste discharge requirements for an existing facility and, as such, is exempt from the California Environmental Quality Act (Public Resources Code, Section 21100 et. seq.) in accordance with Section 15301, Chapter 3, Title 14, California Code of Regulations.
5. The Board has notified the dischargers and other interested agencies and persons of its intent to amend Order No. 88-94 and has provided them with an opportunity to submit their written views and recommendations.
6. The Regional Board, in a public meeting, heard and considered all comments pertaining to the amendment.

IT IS HEREBY ORDERED that Order No. 88-94 shall be amended as follows:

1. Order No. 88-94, Page 3, replace Finding 11 with the following:
 17. On January 6, 1977, the State Board adopted a water reclamation policy regarding the issuance of wastewater reclamation requirements to primary users of reclaimed water. This Order incorporates requirements for the production and use of reclaimed water in conformance with the "Policy and Action Plan for Water Reclamation in California" adopted by the State Board and "Reclamation Criteria" (Title 22 Division 4 California Code of Regulations) adopted by the California Department of Health Services. The Regional Board has consulted with the Department of Health Services regarding these requirements and has incorporated its recommendations.
2. Order No. 88-94, Page 5, add new Discharge Specifications A.9., as follows:
 5. Tertiary recycled water shall at all times, be adequately oxidized, filtered, and disinfected tertiary treated wastewater and shall meet the following limitations:
 - a. The turbidity of the filter effluent shall not exceed any of the following:
 - (1) An average of 2 Nephelometric Turbidity Unit (NTU) within a 24-hour period;
 - (2) 5 NTU more than 5 percent of the time within any 24-hour period; and
 - (3) 10 NTU at any time.
 - b. The 7-day median number of total coliform shall not exceed a Most Probable Number (MPN) of 2.2 total coliform bacteria per 100 milliliters (ml).
 - c. The number of total coliform organism shall not exceed an MPN of 23 total coliform bacteria per 100 ml in more than one sample in any 30-day period.
 - d. No total coliform sample shall exceed an MPN of 240 total coliform bacteria per 100 ml.
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 16. Compliance with the 7-day median total coliform limit expressed in Discharge Specifications 16. shall be based on a running median of the test results from the previous 7 days. To comply with the limit, the 7-day median MPN must not exceed 2.2 per 100 milliliters on any day during the week. However, only one violation is recorded for each calendar week, even if the 7-day median MPN value is greater than 2.2 for more than one day in the week.

4. Order No. 88-94, Page 5, replace the entire Section B with the following:

E. RECYCLED WATER REQUIREMENTS:

1. The use of recycled water shall only commence after the California Department of Health Services (CDHS) grants final approval for such use. The Discharger shall provide the Regional Board with a copy of the CDHS approval letter within 30 days of the approval notice.
2. The Discharger shall be responsible for assuring that recycled water is delivered and utilized in conformance with this Order, the recycling criteria contained in Title 22, Division 4, Chapter 3, Sections 60301 through 60355, California Code of Regulations, and the "Guidelines for Use of Reclaimed Water" by the California Department of Health Services. The discharger shall conduct periodic inspections of the facilities of the recycled water users to monitor compliance by the users with this Order.
3. The Discharger shall establish and enforce Rules and Regulations for Recycled Water users, governing the design and construction of recycled water use facilities and the use of recycled water in accordance with the uniform statewide recycling criteria established pursuant to the California Water Code Section 13521.
 - a. Use of recycled water by the discharger shall be consistent with its Rules and Regulations for Recycled Water Use.
 - b. Any revisions made to the Rules and Regulations shall be subject to the review of the Regional Board, the California Department of Health Services, and the County of Riverside Department of Environmental Health. The revised Rules and Regulations or a letter certifying that the discharger's Rules and Regulations contain the updated provisions in this Order, shall be submitted to the Regional Board within 60 days of adoption of this Order by the Regional Board.
4. The Discharger shall, within 60 days of the adoption of this Order, review and update as necessary its program to conduct compliance inspections of recycled water reuse sites. Inspections shall determine the status of compliance with the discharger's Rules and Regulations for Recycled Water Use.
5. The storage, delivery, or use of recycled water shall not individually or collectively, directly or indirectly, result in a pollution or nuisance, or adversely affect water quality, as defined in the California Water Code
6. Prior to delivering recycled water to any new individual residential user, small commercial, or construction project users, the discharger shall obtain items a. through f. listed below for review and approval by the discharger's supervisor responsible for the operation of the recycled water distribution system. For all other new users, the discharger shall submit to the California Department of Health Services for review and approval a report containing items a. through f. listed below:

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 - c. The person or persons responsible for operation of the recycled water system at each use area.
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 - e. The methods to be used to assure that the installation and operation of the recycled system will not result in cross connections between the recycled water and potable water piping systems. This shall include a description of the pressure, dye or other test methods to be used to test the system.
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 - v. Plan notes relating to specific installation and use requirements.
7. The user shall designate an on-site supervisor responsible for the operation of the recycled water distribution system. The supervisor shall be responsible for enforcing this Order, prevention of potential hazards, the installation, operation and maintenance of the distribution system, maintenance of the distribution and irrigation system plans in "as-built" form, and for the distribution of the recycled wastewater in accordance with this Order.
5. Monitoring and Reporting Program No. 88-94, Page 12, add new Effluent Monitoring 7. and add new footnotes 2 and 3 as follows:
7. In addition to the effluent monitoring in paragraph 1., above, the following shall be monitored whenever tertiary treated effluent is used for recycling purposes:

EFFLUENT MONITORING			
CONSTITUENT	UNITS	TYPE OF SAMPLE	MINIMUM FREQUENCY OF SAMPLING AND TESTING
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¹ NTU = Nephelometric Turbidity Units

² MPN/100mL = Most Probable Number per 100 milliliters

Notes:

- (1) Turbidity analysis shall be continuous, performed by a continuous recording turbidimeter. Compliance with the daily average operating filter effluent turbidity shall be determined by averaging the levels of recorded turbidity taken at a minimum of four-hour intervals over a 24-hour period. The results of the daily average turbidity determinations shall be reported monthly.
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6. Monitoring and Reporting Program No. 88-94, Page 13, insert new heading and paragraph as follows before Water Supply Monitoring:

Recycled Water Monitoring:

Whenever recycled water is supplied to a user, the volume and type of recycled water, the user of recycled water, the locations of those sites including the names of the groundwater management zone underlying the recycled water use sites, type of use (e.g. irrigation, industrial, etc) and the dates at which water is supplied shall be recorded. A summary report of water use by groundwater management zones shall be submitted quarterly. This report shall be included in the annual report.

6. All other conditions and requirements of Order No. 88-94 shall remain unchanged.

I, Gerard J. Thibeault, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, Santa Ana Region, on January 18, 2006.

Gerard J. Thibeault
Executive Officer